

APPENDIX 5

Appendix 5. Translation Map of the Bandman Sequence (SEQ ID NO: 130)

The nucleotide assignment of the Bandman sequence is given under the amino acid translation. The sequences identical between the Bandman sequence and SEQ ID NO:67 and the translated polypeptide SEQ ID NO:51, are bolded.

Note that a cluster of stop codons at the 5' end of the C β 2 region makes the polynucleotide untranslatable.

cgaggactcctggttctgggtgctggagancatggggctctcagcggtggaaaggacc 60
 M G L S A V G R T 9
 < -----
 cgagctgagtctggacagcagagcgggcagcaccggttttgtcctggcctccaggct 120
 R A E S G T A E R A A P V F V L G L Q A 29
 ----- 5' intronic upstream of J β 2.3 -----
 Gtggcacagatacgcagtatttggcccaggcaccggctgacagtgctcggtaagcgg 180
 V S T D T Q Y F G P G T R L T V L G K R 49
 --- >< ----- J β 2.3 exon ----- >< -----
 Gggctccgctgaagcccgaaactggggaggggcgccccggacgcggggcgctcg 240
 G L P L K P G N W G G G A P G R R G R R 69
 ----- intron -----
 Agggccagttctgtgccgcgtctggggctgtgagccaaaaacattcagtacttcggcg 300
 R A S F C A A S R G C E P K T F S T S A 89
 ----- >< ----- J β 2.4 exon -----
 Ccgggaccggctctcagtgctggaggacctgaaaaacgtgttcccacccgaggtcg 360
 P G P G S Q C W R T Stop K T C S H P R S L 109
 ----- > <-- C β 2 (up to the end of the sequence)
 Tgttgagccatcagaagcagagatctccacacccaaaaggccacactggtgtgcctgg
 C L S H Q K Q R S P T P K R P H W C A W
 Ccacaggcttacccgaccacgtggagctgagctgggtgaatggaaaggaggtgc
 P Q A S T P T W S Stop A G G Stop M G R R C
 acagtgggtcagcacagacccgcagccctcaaggagcagccgcctcaatgactcca
 T V G S A Q T R S P S R S S P P S M T P
 gatactgcctgagcagccctgagggctcgccaccttctggcagaaccccgcaacc
 D T A Stop A A Stop G S R P P S G R T P A T
 acttccgctgtcaagtccagttcacggctctggagaatgacgagtggaacccaggata
 T S A V K S S T G S R R M T S G P R I
 gggccaaacctgtcacccagatcgtcagcgccgaggctgggttagagcagactgtggct
 G P N L S P R S S A P R P G V E Q T V A
 tcacctccggtaagtgagtcgtccatcttgcgttatcttcggcgtctctcgatcga
 S P P V S E S L L F L S I F R R L C S R
 accagggcatggagaatccacggacacagggcggtgagggaggccagagccacctgtgca
 T R A W R I H G H R G V R E A R A T C A
 caggtacctacatgctgttctgtcaacagagtcttaccagcaagggtcctgtctgc
 Q V P T C S V L V N R V L P A R G P V C
 caccatcctctatgagatcttgcgttagggaaaggccacctgttatgcgtgtcagtc
 H H P L Stop D L A R E G H L V C R A G Q C
 cctcggtgtatggccatggtaagagaaaggattccagaggctagctccaaaaccatcc
 P R A D G H G Q E K G F Q R L A P K P S
 caggtcattcttcatcctcaccaggattctcgttacctgtccatctgtgttcccta
 Q V I L H P H P G F S C T C S Q S V F L
 aaagtgattctcactctgtttcatcttacttacatgaataacttctcttttct
 K V I L T L L I S Y L H E Y F S L F S
 gttccctgaagattgagctccaaaccccaagtagcggaaataggc
 V S L K I E L P T P K Y E I G